

FIG. I

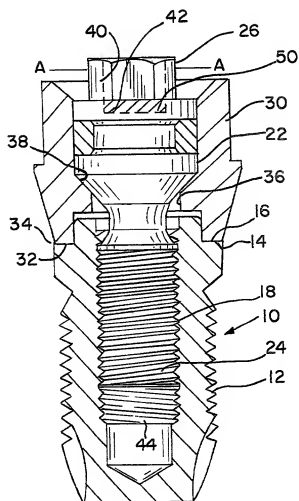


FIG. 1A

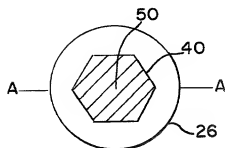


FIG. 2

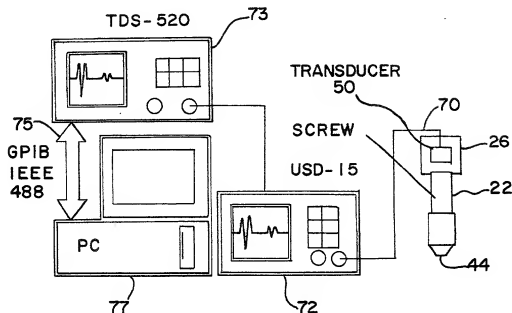


FIG. 3

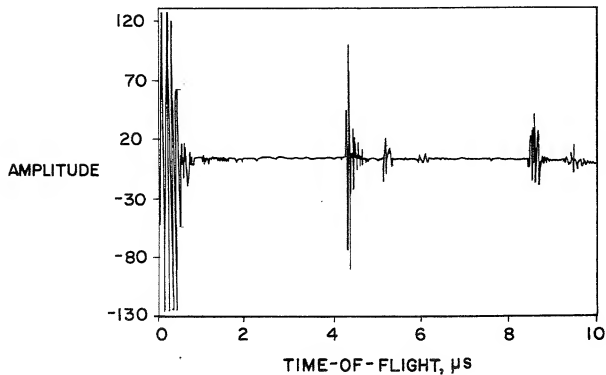


FIG. 4

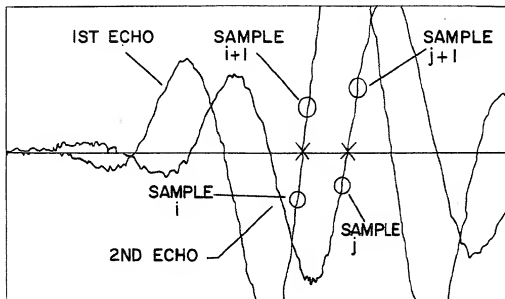
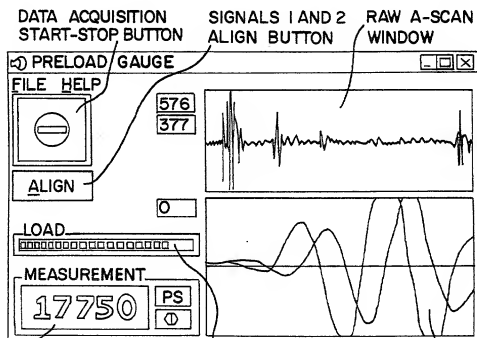


FIG. 5



TOF, STRESS, LOAD  
AND TEMPERATURE  
INDICATOR

LOAD INDICATOR (PERCENT  
OF NOMINAL LOADING)

ALIGNED A-  
SCAN WINDOW

FIG. 6

WINDOW	FUNCTION
<div> <div>GAUGE CONFIGURATION</div> <div>C:\CONFIG_STRAIN.GAG</div> <div> <div>N SAMPLES</div> <div>5000</div> </div> <div> <div>N FRAMES</div> <div>1</div> </div> <div> <div>N LEVELS</div> <div>255</div> </div> <div> <div>CANCEL</div> <div>OK</div> </div> </div>	<div>GAUGE CONFIGURATION:</div> <p>SPECIFIES NUMBER OF SAMPLES AND NAME OF CONFIGURATION FILE</p> <p>N SAMPLES CAN BE ANY OF TDS520 ACQUISITION LENGTHS.</p> <p>N FRAMES MUST BE 1 (N SAMPLES&gt;1 IS USED ONLY FOR FASTFRAME MODE N/A)</p>
<div> <div>MEASUREMENT DIALOG</div> <div> <div>DEGREE/NS</div> <div>1</div> </div> <div> <div>NEWTON/NS</div> <div>1</div> </div> <div> <div>UNITS</div> <div>PS</div> </div> <div> <div>PRECISION</div> <div>0</div> </div> <div> <div>CROSS AREA</div> <div>0</div> </div> <div> <div>MAX LOAD</div> <div>0</div> </div> <div> <div>OK</div> <div>CANCEL</div> </div> </div>	<div>MEASUREMENT SETTINGS:</div> <p>SPECIFIES COEFFICIENTS FOR STRAIN, TEMPERATURE, FORCE MEASUREMENT, PRECISION, MAXIMUM LOAD AND CROSS AREA OF THE SCREW DEGREE/NS - COEFFICIENT FOR TEMPERATURE NEWTONS/NS - COEFFICIENT FOR FORCE</p> <p>UNITS-ONE OF THE FOLLOWING (PS, NS, N, MPa, DEGREE)</p> <p>PRECISION-NUMBER OF SIGNIFICANT DIGITS AFTER DECIMAL POINT. (DEFAULT 2)</p> <p>CROSS AREA OF THE SCREW IN mm<sup>2</sup> (DEFAULT 2.137)</p> <p>MAX LOAD IS MAXIMUM TOF DEVIATION IN NANOSECONDS ALLOWED</p>

FIG. 7

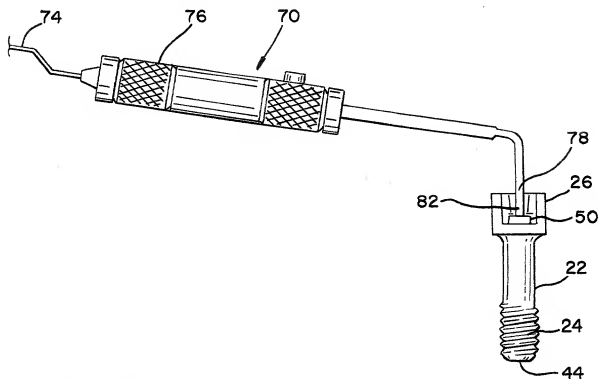


FIG. 8

